

**Notice of Allowability**

Application No.

10/764,622

Applicant(s)

STAMM ET AL.

Examiner

Jin-Cheng Wang

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/29/2007.
2. ☒ The allowed claim(s) is/are 22-37.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d)

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                     |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|  | 9. <input type="checkbox"/> Other _____   |

***EXAMINER'S AMENDMENT***

An examiner's amendment to the record appears below. Should the changes and or additions be unacceptable to the applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Prior to this Office Action, the Examiner has an interview with Mr. Colby C. Nuttall dated Aug. 31, 2007. Applicant agrees with the changes suggested by the Examiner to the claim 23-35 and a copy of the amendment to the claims 23-35, has been faxed by the Applicant. Please amend the claims 23-25 as follows.

23. (Currently Amended) [A method as recited in] The method of claim 22, wherein identifying a first constraint applied to the control point comprises identifying a first function that represents the first constraint, wherein solutions to the first function indicate compliance with the first constraint.
24. (Currently Amended) [A method as recited in] The method of claim 22, wherein identifying a first constraint comprises identifying at least one of a distance constraint and a proportion constraint.
25. (Currently Amended) [A method as recited in] The method of claim 22, wherein calculating, based on a location of the control point, that the control point does not comply with the first constraint comprises determining that using the control point as

input to a first function does not result in a value that approximates a zero.

26. (Currently Amended) [A method as recited in] The method of claim 22, wherein the first and second axes are each in the direction of one of an X axis or a Y axis.
27. (Currently Amended) [A method as recited in] The method of claim 22, further comprising: moving the control point in the first direction of freedom to comply with the first constraint.
28. (Currently Amended) [A method as recited in] The method of claim 22, further comprising: identifying a second constraint applied to the control point; and using the first direction of compliance to set a second direction of freedom.
29. (Currently Amended) [A method as recited in] The method of claim 28, wherein the first direction of compliance is at a diagonal, and wherein using the first direction of compliance to set a second direction of freedom comprises setting the second direction of freedom perpendicular to the first direction of compliance, such that the second direction of freedom is at a diagonal.
30. (Currently Amended) [A method as recited in] The method of claim 22, further comprising: identifying a second constraint applied to the control point, and wherein automatically and dynamically determining an order for applying one or more directions

of freedom comprises determining that the first constraint should be complied with before the second constraint because a non-diagonal direction of freedom is determined for the first constraint while a diagonal direction of freedom is determined for the second constraint.

31. (Currently Amended) [A method as recited in] The method of claim 30, further comprising: moving the control point, in the direction of the first direction of freedom, to a location that results in compliance with the first constraint; and moving the control point in the direction of the second direction of freedom in a manner that does not result in non-compliance with the first constraint.
32. (Currently Amended) [A method as recited in] The method of claim 22, wherein the graphical object is a character of text.
33. (Currently Amended) [A method as recited in] The method of claim 22, wherein the received set of control points and one or more constraints define the first constraint and the first direction of compliance, and without specifying the first direction of freedom.
34. (Currently Amended) [A method as recited in] The method of claim 22, further comprising: for each control point in the set of control points, determining a number of constraints the control point is to comply with.

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35. (Currently Amended) [A method as recited in] The method of claim 22, wherein acts (c)-(e) are repeated for each control point in the set of control points which has a constraint thereon.

### *Reasons for Allowance*

The following is an examiner's statement of reasons for allowance:

The claims 22 and 36-37 of the amendment of 8/29/2007 are allowed for the reasons set forth below. Nothing in the prior art anticipates or suggests, "automatically and dynamically determining an order for setting directions of freedom and for moving the control point in the directions of freedom, based on a comparison of at least two angles defined between the first direction of compliance and first and second axes, comprising: (i) calculating a first angle between the first direction of compliance and the first axis and calculating a second angle between the first direction of compliance and the second axis; (ii) comparing the first angle with the second angle and determining that the first angle is less than the second angle, such that the first direction of compliance is closer to the first axis than the second axis; and (iii) based on the determination that the first angle is less than the second angle and that the first direction of compliance is closer to the first axis than the second axis, setting the first axis as the first direction of freedom for moving the control point, and prior to setting the second direction of freedom for subsequently moving the control point, and such that the order in which the directions of freedom are set is automatically and dynamically dependent upon a magnitude of each of the first and second angles" in a computerized method for automatically and dynamically determining one or more directions of freedom and an order for applying the one or more

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directions of freedom to move a control point in a manner that complies with a constraint and with a reduced likelihood of causing non-compliance with other of the one or more constraints, set forth in the base claim 22. The claim 36 and claim 37 are allowed for the same reasons as the claim 22. The claims 23-35 are allowed based on the examiner's amendment (see the attached paper).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jin-Cheng Wang whose telephone number is (571) 272-7665.

The examiner can normally be reached on 8:00 - 6:30 (Mon-Thu).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on (571) 272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JCW

A handwritten signature in black ink, appearing to read "Jinteng Wang", written in a cursive style.